

Supporting Information

2 *Shewanella Oneidensis* MR-1-Induced Fe(III) Reduction Facilitates Roxarsone

3 Transformation

4 Running Title: Microbial Facilitated Roxarsone Transformation

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16 **Table A. The composition of the bacterial minimal medium (BM).**

Chemical	Concentration
K ₂ HPO ₄	50.0 mg/L
KH ₂ PO ₄	35.0 mg/L
NaCl	460.0 mg/L
(NH ₄) ₂ SO ₄	225.0 mg/L
MgSO ₄ ·7H ₂ O	117.0 mg/L
NaHCO ₃	50.0 mmol/L
NaC ₃ H ₅ O ₃	50.0 mmol/L
Vitamin Mix ¹	5.0 mL
Mineral Mix ²	5.0 mL

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18 ^{1,2} Details in Tables B and C.

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20 **Table B. The composition of vitamin mix solution used in bacterial minimal medium.**

Constituent	Concentration
Biotin	2.0 mg/L
Folic acid	2.0 mg/L
Pyridoxine HCl	10.0 mg/L
Riboflavin	5.0 mg/L
Thiamine	5.0 mg/L
Nicotinic acid	5.0 mg/L
Pantothenic acid	5.0 mg/L
B-12	0.1 mg/L
p-aminobenzoic acid	5.0 mg/L
Thioctic acid	5.0 mg/L

22 **Table C. The composition of minerals mix solution used in bacterial minimal medium.**

Constituent	Concentration
NTA	1500.0 mg/L
MgSO ₄	3000.0 mg/L
NaCl	1000.0 mg/L
MnSO ₄ ·H ₂ O	500.0 mg/L
FeSO ₄ ·7H ₂ O	100.0 mg/L
CaCl ₂ ·2H ₂ O	100.0 mg/L
CoCl ₂ ·6H ₂ O	100.0 mg/L
ZnCl ₂	130.0 mg/L
CuSO ₄ ·5H ₂ O	10.0 mg/L
AlK(SO ₄) ·12H ₂ O	10.0 mg/L
H ₃ BO ₃	10.0 mg/L
Na ₂ MoO ₄	25.0 mg/L
NiCl ₂ ·6H ₂ O	24.0 mg/L
Na ₂ WO ₄ ·2H ₂ O	25.0 mg/L